Instrument Issues

1.38 μm Channel Option

- Strongly recommends inclusion of 1.38 μm band in SWIR/MRIR focal plane
- Options considered
  - Split gain on channels 20, 22 or 23 to include fire detection, thereby enabling channel 21 to be used
  - Substitution of 1.38 μm for either band 24 or 26
- Recommendation
  - Replace band 24 or 26 with 1.38 μm
  - Recommended choice to be specified next week

Detector Operability

- Prefer live detectors to dead detectors
- Recommendation
  - Prefer subpixel to segmented detectors
  - Increased MTF advantageous to atmosphere discipline (and others)
    - cloud/no cloud detection
    - improved characteristics of blending 250, 500 and 1000 m bands
    - along track and cross track FOV response well matched

Descope Options

Registration

- Recognize difficulty in achieving specification on registration
- Recommendation
  - Goal of ≤ 0.1 IFOV within focal plane and between focal planes
  - Requirement
    - ≤ 0.15 IFOV within a focal plane
    - ≤ 0.15 IFOV between focal planes
- Rearrange SWIR/MWIR and LWIR focal planes

Software Development Plan

- Provide SDST with Version α software by January 1993
  - Integrate software into processing of MAS data
  - Provide advantage to TMs of permitting a much higher percentage of aircraft data to be processed than would otherwise be possible
- Product list update and dependency charts
  - Action item to team members to update and return

MODIS Calibrators

- Prefer to give a little relief to SBRC on band to band registration, with some optimization of layout on focal planes
- Feel very strongly that on-board calibrators be further developed and maintained in program
- On-board calibrators more important than extensive GSE calibration effort
  - Exceptions
    - MTF characterization
    - Filter characterization (vacuum *vs* ambient)
    - Radiometric calibration (not to 0.1 K, etc.)